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APPLICATION NO	). F	ILING DATE	FIRST NAMED INVENTOR Ping Sheng Zhang	ATTORNEY DOCKET NO. 29876/37280	CONFIRMATION NO. 2715	
09/839,078		04/20/2001				
4743	7590	11/04/2002				
MARSHALL, GERSTEIN & BORUN				EXAMINER		
233 SOUT	RS TOWER 'H WACKE	ER		MCDERMO	MCDERMOTT, KEVIN	
CHICAGO	O, IL 6060	6-633 /		ART UNIT	PAPER NUMBER	
				3635		

DATE MAILED: 11/04/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

Applicatin No.  Offic Action Summary    Description   Desc							
Examiner McDermott, Kevin  - The MAILING DATE of this communication appears on the cover sheet with the correspondence address -  Peri d for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM  THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  If the period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).  Status  1) Responsive to communication(s) filed on  2a) This action is FINAL.  2b) This action is non-final.  3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4) Claim(s) 1-12 is/are pending in the application.  4a) Of the above claim(s) is/are withdrawn from consideration.							
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5) Claim(s) is/are allowed.							
/ <del>_</del>							
6)⊠ Claim(s) <u>1-12</u> is/are rejected.							
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/or election requirement.							
Application Papers							
9) The specification is objected to by the Examiner.  10) The drawing(s) filed on is/are: a) □ accepted or b) □ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.							
If approved, corrected drawings are required in reply to this Office action.							
12) The oath or declaration is objected to by the Examiner.							
Priority under 35 U.S.C. §§ 119 and 120							
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a) ☐ All b) ☐ Some * c) ☐ None of:							
1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No							
<ul> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>							
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).							
<ul> <li>a) ☐ The translation of the foreign language provisional application has been received.</li> <li>15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.</li> </ul>							
Attachment(s)							
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s)-(PTO-1449) Paper No(s)  4) Interview Summary (PTO-413) Paper No(s)  5) Notice of Informal Patent Application (PTO-152)  6) Other:							

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### **DETAILED ACTION**

# Claim Rejections - 35 USC § 102

Claims 1, 2, 4, and 5 are rejected under 35 U.S.C. 102(b) as being anticipated by Penland.

Regarding claim 1, Penland discloses in figures 1 and 2 and column 3, lines 1-65, mat units 10 comprised of a first layer 12 of parallel wooden boards 16 of substantially uniform length. Each board 16 is positioned parallel to an adjacent board to form a flat first layer 12. Mat units 10 are further comprised of a second layer 14, also formed from a plurality of spaced parallel boards 26 of uniform length and being aligned with one another to form a series of parallel boards connected substantially perpendicular to the boards of the first layer 12. Column 4, lines 34-46, discloses second layer 14 having locking tabs 32 and corresponding side locking slots 34, such that the mats 10 may be locked together. Examiner considers lumber cut from trees, such as the boards 16, 26, to be cut along the grain of the tree during manufacturing.

Examiner considers the mats 10 to constitute the claimed planks (strips according to the new terminology), the boards 16, 26 to constitute the claimed strips (elongate members according to the new terminology), the grain of boards 16 to extend in the longitudinal direction of the mat 10, and the grain of board 26 to extend transversely to the longitudinal direction of the mat 10.

Regarding claim 2, Penland discloses in column 2, lines 43-44, using wooden boards.

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Regarding claims 4 and 5, Examiner considers the locking tabs 32 and locking slots 34, together, as constituting a tongue and groove relationship.

## Claim Rejections - 35 USC § 103

Claims 3 and 6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Penland in view of Burlant.

Penland's disclosure is discussed above. However, Penland does not disclose disposing acrylic urethane or aluminum oxide on wood flooring strips.

Burlant discloses in column 1, lines 31-40, and column 2, lines 11-34, providing wood with a urethane resin and vinyl monomer coating to form a decorative or abrasion resistant coating. The vinyl monomer includes an acrylic monomer.

Therefore, Examiner considers it obvious to one of ordinary skill in the art at the time the invention was made to dispose a wood coating made of acrylic urethane on the wood boards 16, 26 of Penland. One of ordinary skill would be motivated to make such a modification to increase the abrasion resistance of all the wood board 16, 26 faces.

Claim 7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Penland in view of Chen.

Penland's disclosure is discussed above. However, Penland does not disclose disposing aluminum oxide on wood flooring strips.

Chen discloses disposing aluminum oxide on floor surfaces. Therefore, Examiner considers it obvious to one of ordinary skill in the art at the time the invention was made to dispose aluminum oxide on the wood boards 16, 26 of Penland to increase the abrasion resistance of the flooring.

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Claims 8-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Penland in view of Burlant and further in view of Wu.

Penland's disclosure is discussed above. However, Penland does not disclose disposing acrylic urethane on wood flooring strips or using bamboo flooring strips in lieu of wood.

Burlant discloses in column 1, lines 31-40 and column 2, lines 11-34, providing wood with a urethane resin and vinyl monomer coating to form a decorative or abrasion resistant coating. The vinyl monomer includes an acrylic monomer.

Wu discloses, in column 1, lines 14-15, a wooden or bamboo floor. Therefore, Examiner considers it obvious to one of ordinary skill in the art at the time the invention was made to make the wood boards 16, 26 of Penland from bamboo and to dispose a wood coating made of acrylic urethane on the wood boards 16, 26. One of ordinary skill would have been motivated to make such a modification to increase the abrasion resistance of all of the wood board 16, 26 faces.

#### Response to Arguments

Applicant's arguments filed 9/5/02 have been fully considered but they are not persuasive.

Applicant has amended claims 1-12 by substituting "strip" for "plank", and substituting "flooring strip" (or an equivalent) for "strip".

Examiner does not consider the terminology changes to differentiate the invention as claimed from Penland. Because Penland discloses the structural features

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of the claimed invention, Examiner considers Penland as capable of being used for the same purposes.

Applicant also asserts that Penland teaches that the mat units 10 include wooden boards that each constitute a hard wooden boards eight inches wide by two inches thick, and that one of ordinary skill in the art would not reasonably interpret or consider the mat units 10 to constitute a "plank".

As discussed above, because Penland discloses the structural features of the claimed invention Examiner considers it capable of being used for the same purposes.

#### Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

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Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Kevin McDermott, whose telephone number is 703-308-8266.

KM 10/31/02

Carl D: Friedman Supervisory Patent Examiner Group 3600 Page 6